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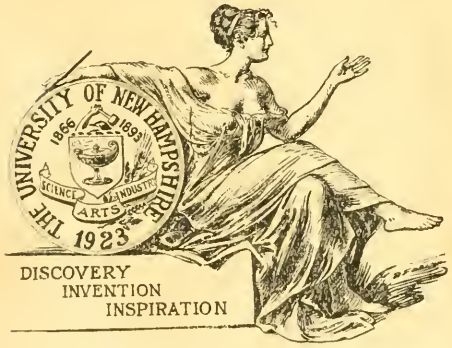

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[Bulletin 229] ?

RESULTS OF SEED TESTS

Made July 1, 1926, to June 30, 1927

One of the outstanding developments in the seed trade business which has taken place in the past year has been the enforcement of a new seed law recently enacted by Congress. This has to do with the placing of an identifying mark on certain small legume seeds which are brought into this country from other parts of the world. This act applies specifically to the seeds of red clover and alfalfa.

A process is used which colors a part of the seeds either red, purple or green as the case may be so that all imported seeds of these two species can be recognized with a little care even by a novice.

Alfalfa and red clover seeds which are brought in from Canada are treated with a dye so that approximately one seed in every hundred shows an artificial violet color. A little care is needed here to distinguish this coloring, especially in the case of red clover which has varying amounts of dark purple-colored seeds mixed with lighter greens and yellows as it is produced naturally. If interested one could first learn to distinguish this color in red clover most easily by means of a hand lens.

Seeds of either of these species which come from foreign countries other than Canada, the origin of which is known, and which have not been definitely determined to be unadapted to general use in the United States are colored approximately one seed in every hundred green.

When the origin of the seed is unknown, or when it comes from countries whose product is not adapted to general farm use, in the United States, the color used is red, and approximately one seed in every ten is colored.

The red is, of course, very conspicuous both because it is dissimilar to any color found in either of these seeds naturally and also because there are ten times as many colored seeds as with the other colorings.

The new law then does specifically two things: (1) it labels all seeds of alfalfa and red clover which come from foreign countries whether of desirable origin or otherwise; and (2) all seeds of these two species imported from countries whose seeds have been formally determined by the Secretary of Agriculture to be unadapted to general use in the United States carry a warning color of red on sufficient numbers of seeds to be very conspicuous. This regulation should prove of considerable value to the farmers of our country. It protects the grower of alfalfa and red clover seed from having his product indiscriminately mixed with imported seed on the market. The buyer's interests are protected against adulteration, if he chooses to buy native seed; and particularly against certain undesirable sources in southern Europe or elsewhere from which seed ill-suited to our environment may be obtained. Many samples of seeds collected this year show the color which denotes that they are imported, and thus this law is being effectively administered. However, presumably undesirable seeds, i.e., those branded with red, have not been found in any of the samples.

The total number of seed samples tested in the laboratory this year is five hundred and fourteen. Besides about sixty samples sent in by individuals for private tests, twenty so-called "referee samples" sent out by the American Association of Official Seed Analysts for purposes of comparing the work of the different state laboratories of the United States and checking them up on methods and equipment used a small number of retests, etc, there are three hundred and ninety-eight official samples reported in this bulletin. These official samples are collected by the Commissioner of Agriculture and sent to the seed testing laboratory accompanied by such guarantees of purity, germination, etc., as may be found with them at the place where they are offered for sale. The state seed law requires that this work be done and designates certain qualities in

respect to which the seed must be guaranteed at place of sale.

The work of the seed testing laboratory in respect to these seeds is to subject them to tests in order to see if they prove as good as their guarantees indicate. In reporting the findings this year the usual variations between our results and the guarantees have been allowed. These variations are fully explained in the bulletin for last year and will not be repeated here. Practically all tests on seed were completed and reports on special blanks mailed to their respective dealers by the first of July. A very few were finished and reported in July.

A summary table is appended at the end showing that a large proportion of the seeds collected this year is entirely satisfactory. Only 7.5 per cent of the samples were less than satisfactory in purity, but 14.8 per cent failed to satisfy our requirements in germination. Some of these unsatisfactory results were obtained on seed from dealers who seldom violate the requirements. Probably none were intentional. Results strongly emphasize the importance of eternal vigilance in handling seed.

SEED EXAMINATION. 1927.

Sample No.	Kind of Seed, Brand, Name and Address of Dealer	Purity		Germination	
		F'nd	Guaranteed	F'nd	Guaranteed
6413	Alfalfa (*Canadian Variegated*) ..... W. F. Abbott, Lancaster	S	99.50	S	90
6205	Alfalfa (*Grimm*) ..... Ayers & Jenkins Co., Rochester	A	99	A	85
6429	Alfalfa (*Genuine Certified Grimm*).... Clark & Richardson, Lisbon	S	99	S	90
6337	Alfalfa (*Pedigreed Grimm*)..... Merrimack Farmers' Exchange, Concord	S	99.5	S	92
6191	Alfalfa (*Grimm*) ..... J. J. Moreau & Son, Manchester	A	92	A	90
6289	Alfalfa (*Ontario Variegated*) ..... F. W. Neal & Co., Dover	S	99.5	S	90
6471	Alfalfa (*Montana Grimm*) ..... D. A. Noyes & Son, Colebrook	S	99	S	92
6307	Alfalfa (*Pan American*) ..... S. A. Schurman & Son, Portsmouth	S	99.5	S	90
6331	Alfalfa (*Canada Grimm*) ..... J. H. Seavey, Dover	S	99.88	S	94
6178	Alfalfa (*Idaho Grimm*, 27312) ..... John B. Varick Co., Manchester	S	99.5	S	92
6412	Alsike (*Certi-seed*) ..... W. F. Abbott, Lancaster	S	99	S	90
6213	Alsike (*Imperial*) ..... Ayers & Jenkins Co., Rochester	S	97.6	S	86
6361	Alsike ..... Bell Hardware Co.,Derry	A	95	A	85
6584	Alsike ..... Boynton & Ellis, Claremont	S	84	S	83
6450	Alsike (*Pan American*) ..... F. P. Brown, Whitefield	S	97	S	90
6315	Alsike (*Pan American*) ..... S. A. Dow & Son, North Hampton	S	97.5	S	90
6418	Alsike (*Special*) ..... Edson & Kinne, Littleton	93.49	96.90	82	93
6421	Alsike ..... Edson & Kinne, Littleton	S	84	S	85
6358	Alsike (*Pan American*)..... Fessenden Co., Inc., Londonderry	S	97.5	S	90
6210	Alsike ..... Eugene C. Foss Co., Rochester	S	97.5	S	90
6478	Alsike ..... J. H. Griffin, Newmarket	S	96.18	S	93
6532	Alsike ..... J. R. Jackson & Son, Colebrook	S	99	S	90
6299	Alsike (*Pine Tree*) ..... Jenness Hardware Co., Dover	S	98.55	S	94
6491	Alsike ..... Keegan & French, Franklin	A	95	72	90
6531	Alsike ..... Leavitt, Gould & Hurlbert, Colebrook	S	96.45	S	95
6536	Alsike (*Pan American*) ..... Meredith Grain Co., Meredith	S	97	S	90
6226	Alsike ..... J. J. Moreau & Son, Manchester	S	97	79	90
6550	Alsike ..... J. H. Morrill, Laconia	S	97.65	S	93

A=Above. S=Satisfactory.

SEED EXAMINATION, 1927 — *Continued.*

Sample No.	Kind of Seed, Brand, Name and Address of Dealer	Purity		Germination	
		F'nd	Guaranteed	F'nd	Guaranteed
6320	Alsike F. W. Neal & Co., Dover	S	97	S	97
6411	Alsike C. J. O'Neil, Woodsville	S	97.80	S	93
6404	Alsike (*Choice*) W. F. Peel, Nashua	S	95.50	S	80
6432	Alsike (*Pan American*) Pike & Gale, Littleton	S	97	A	90
6517	Alsike (*Pan American*) Rand & Dearborn, Laconia	S	97	A	90
6436	Alsike Frank Smith Co., Lancaster	S	98.65	S	93
6291	Alsike (*Pine Tree*) Somersworth Grain Co., Somersworth	S	95	S	85
6437	Alsike F. B. Spaulding Co., Lancaster	S	96.05	S	94
6204	Alsike (*Choice*) Strafford Co. Grain Mill, Rochester	S	96.41	S	90
6247	Alsike (*Acc*) Thompson & Hoague Co., Concord	S	94.55	S	85
6480	Alsike (*Choice*) A. J. Turcotte, Newmarket	S	98	S	90
6180	Alsike (*Pine Tree*, 21356) John B. Varick Co., Manchester	S	96.50	S	92
6181	Alsike (*Pine Tree*, 2184) John B. Varick Co., Manchester	A	98	S	93
6349	Alsike W. A. Young, Exeter	95.02	97.8	84.5	93
6446	Barley (6-row) F. P. Brown, Whitefield	S	98	S	90
6309	Barley (6-row) R. L. Costello, Portsmouth	S	97.5	90.5	98
6455	Barley (6-row) G. B. Currier Co., Colebrook	S	98	S	90
6202	Barley (6-row) Eugene C. Foss Co., Rochester	S	98	S	99
6581	Barley (*Hygrade* 6-row) L. W. Gile, Newport	S	99	S	97
6486	Barley (*Montana* 2-row) J. H. Griffin, Newmarket	S	97	S	96
6355	Barley (*Montana*) Hilliard & Kimball, Exeter	S	97	S	94
6393	Barley (*Monadnock*, 6-row) Holbrook Grocery Co., Woodsville	S	99.6	S	98
6519	Barley (6-row) Meredith Grain Co., Meredith	S	99	S	96
6524	Barley (6-row *Monadnock*) Meredith Grain Co., Meredith	S	99	77	89
6251	Barley (6-row) Merrimack Farmers' Exchange, Concord	S	95.76	S	95
6283	Barley (*Montana*) F. W. Neal & Co., Dover	S	98	S	94
6523	Barley (2-row) C. N. Roberts, Meredith	S	98	S	90
6301	Barley (2-row) S. A. Schurman & Son, Portsmouth	S	99	S	90

A=Above. S=Satisfactory.

SEED EXAMINATION, 1927 — *Continued.*

Sample No.	Kind of Seed, Brand, Name and Address of Dealer	Purity		Germination	
		F'nd	Guaranteed	F'nd	Guaranteed
6328	Barley (6-row) ..... J. H. Seavey, Dover	S	98.14	S	94
6435	Barley (6-row) ..... Frank Smith Co., Lancaster	S	98.50	S	92
6236	Barley (6-row) ..... Thompson & Hoague Co., Concord	S	99.07	S	97
6151	Barley (6-row, 71314) ..... John B. Varick Co., Manchester	S	99.22	S	96
6345	Barley (*Montana*) ..... W. A. Young, Exeter	S	98	S	94
6153	Bent Grass, German ..... John B. Varick Co., Manchester	69.15	94	54	86
6258	Bluegrass, Kentucky (*Choice*) ..... Capital Hardware Co., Concord	S	75	S	80
6592	Buckwheat ..... F. W. Clark, Wilton	S	98.96	S	93
6200	Buckwheat (*Japanese*) ..... Eugene C. Foss Co., Rochester	S	98	S	90
6282	Buckwheat (*Japanese*) ..... F. W. Neal & Co., Dover	S	98	A	90
6520	Buckwheat (*Japanese*) ..... C. N. Roberts, Meredith	S	98	S	90
6154	Buckwheat (*Japanese*, 7291) ..... John B. Varick Co., Manchester	S	98	S	96
6605	Canada Field Peas (3761) ..... Goodnow Bros. Co., East Jaffrey	S	98	S	90
6466	Canada Field Peas ..... J. R. Jackson & Son, Colebrook	S	98	74	90
6294	Canada Field Peas ..... Jenness Hardware Co., Dover	S	100	77	96
6467	Canada Field Peas ..... Leavitt, Gould & Hurlbert, Colebrook	S	99	S	87
6340	Canada Field Peas (*Globe*) ..... Merrimack Farmers' Exchange, Concord	S	99	S	87
6306	Canada Field Peas (*Fancy*) ..... S. A. Schurman & Son, Portsmouth	S	98	S	90
6250	Canada Field Peas ..... Thompson & Hoague Co., Concord	S	99.5	S	85
6166	Canada Field Peas ..... John B. Varick Co., Manchester	S	96	S	93
6593	Corn (*Improved Leaming*) ..... W. A. Bryer & Co., Peterboro	S	99	S	90
6230	Corn (*Excelsior*) ..... Eugene C. Foss Co., Rochester	S	98	46	90
6598	Corn (*Faith Ensilage*, 3624) ..... Goodnow Bros. Co., East Jaffrey	S	98	S	90
6189	Corn (*Early Yellow Canada*) ..... J. J. Moreau & Son, Manchester	S	98	S	85
6198	Corn (*Improved Leaming*) ..... J. J. Moreau & Son, Manchester	S	98	S	90
6339	Corn (*Bloody Butcher*) ..... Merrimack Farmers' Exchange, Concord	S	99.5	S	90
6410	Corn (*C. P. Special*) ..... C. J. O'Neil, Woodsville	S	98	S	90
6496	Corn (*Eureka*) ..... O. A. Plummer, Tilton	S	98	S	90

A=Above. S=Satisfactory.

SEED EXAMINATION, 1927 — *Continued.*

Sample No.	Kind of Seed, Brand, Name and Address of Dealer	Purity		Germination	
		F'nd	Guaranteed	F'nd	Guaranteed
6241	Corn (*White Sanford Flint*) ..... Thompson & Hoague Co., Concord	S	99.5	S	90
6245	Corn (*Leaming Fodder*) ..... Thompson & Hoague Co., Concord	S	99.5	S	90
6146	Corn (*Imp. Leaming*) ..... John B. Varick Co., Manchester	S	96	S	92
6147	Corn (*White Sanford*) ..... John B. Varick Co., Manchester	S	98	76	85
6346	Mangles (*Mammoth Long Red*) ..... Hilliard & Kimball, Exeter	S	98	S	88
6145	Mangle-Wurzel (*White French Sugar*) John B. Varick Co., Manchester	S	96	S	70
6155	Mangle-Wurzel (*Golden Tankard*).... John B. Varick Co., Manchester	S	98	S	80
6156	Mangle-Wurzel (*Narbitan Giant*) .... John B. Varick Co., Manchester	S	98	S	78
6350	Millet, German ..... J. Cushing Co., Exeter	S	99.54	S	92
6386	Millet, Golden ..... Hill Hardware & Paint Co., Nashua	S	97	82	90
6406	Millet, Golden ..... W. F. Peel, Nashua	S	99.40	S	85
6303	Millet, Golden (*Choice*) ..... S. A. Schurman & Son, Portsmouth	S	98	S	88
6225	Millet, Hungarian ..... Ayers & Jenkins Co., Rochester	S	98.9	S	90
6448	Millet, Hungarian (*Fancy*) ..... F. P. Brown, Whitefield	S	99	S	90
6558	Millet, Hungarian ..... O. A. Brown, Ashland	S	98	S	84
6351	Millet, Hungarian ..... J. Cushing Co., Exeter	S	97.48	S	90
6324	Millet, Hungarian (*Fancy*) ..... S. A. Dow & Son, North Hampton	98.07	99	81	90
6223	Millet, Hungarian (*Fancy*) ..... Eugene C. Foss Co., Rochester	96.88	98	S	90
6569	Millet, Hungarian ..... J. H. Griffin, Newmarket	S	97	S	88
6194	Millet, Hungarian ..... J. Jones & Son, Alton	A	98	S	80
6576	Millet, Hungarian (*Fancy*) ..... Keegan & French, Franklin	S	99.60	S	90
6188	Millet, Hungarian ..... Manchester Hardware Co., Manchester	S	98.5	S	84
6196	Millet, Hungarian ..... Manchester Hardware Co., Manchester	98.54	99.62	79	91
6477	Millet, Hungarian ..... McQuesten & Lewis, Manchester	95.35	98.20	66	93
6371	Millet, Hungarian (*Choice*) ..... Merrill Bros., Hampton Falls	S	98	72	90
6201	Millet, Hungarian (*Fancy*) ..... J. J. Moreau & Son, Manchester	97.14	99	S	90
6298	Millet, Hungarian ..... F. W. Neal & Co., Dover	S	96.07	S	90
6500	Millet, Hungarian ..... J. P. Pitman & Co., Laconia	S	98	59	94

A=Above. S=Satisfactory.

SEED EXAMINATION, 1927 — *Continued.*

Sample No.	Kind of Seed, Brand, Name and Address of Dealer	Purity		Germination	
		F'nd	Guaranteed	F'nd	Guaranteed
6572	Millet, Hungarian (*Fancy*) ..... H. C. Sanborn, Laconia	S	98	S	90
6308	Millet, Hungarian (*Choice*) ..... S. A. Schurman & Son, Portsmouth	96.78	99	S	80
6327	Millet, Hungarian ..... J. H. Seavey, Dover	S	97.4	S	88
6284	Millet, Hungarian ..... Somersworth Grain Co., Somersworth	A	98	S	80
6434	Millet, Hungarian ..... F. B. Spaulding Co., Lancaster	S	98.90	73	90
6494	Millet, Hungarian ..... C. P. Stevens Co., Franklin	S	98.42	S	80
6338	Millet, Hungarian ..... Thompson & Hoague Co., Concord	A	99.08	75	87
6535	Millet, Hungarian ..... A. J. Turcotte, Newmarket	S	98	71.5	93
6506	Millet, Hungarian ..... F. H. Veroneau, Concord	S	98.11	S	80
6171	Millet, Hungarian (4751) ..... John B. Varick Co., Manchester	S	99.30	S	88
6182	Millet, Hungarian (4743) ..... John B. Varick Co., Manchester	97.80	98.50	S	84
6209	Millet, Japanese (*Pine Tree*) ..... Ayers & Jenkins Co., Rochester	S	96.05	S	85
6445	Millet, Japanese (*Fancy*) ..... F. P. Brown, Whitefield	S	96	S	85
6547	Millet, Japanese (*Monadnock*) ..... W. B. Brown, Ashland	S	92	S	74
6426	Millet, Japanese (*Fancy*) ..... Clark & Richardson, Lisbon	92.93	96	60	85
6427	Millet, Japanese ..... A. F. Clement & Son, Lisbon	S	94.80	71	88
6456	Millet, Japanese ..... G. B. Currier Co., Colebrook	S	96	S	85
6376	Millet, Japanese ..... J. Cushing Co., Exeter	S	97.45	S	93
6323	Millet, Japanese (*Fancy*) ..... S. A. Dow & Son, North Hampton	S	98	55	85
6356	Millet, Japanese ..... Fessenden Co., Inc., Londonderry	96.17	98	78	90
6228	Millet, Japanese (*Fancy*) ..... Eugene C. Foss Co., Rochester	90.44	96	64	85
6368	Millet, Japanese (*Choice*) ..... Merrill Bros., Hampton Falls	S	96	S	85
6562	Millet, Japanese (*Fancy*) ..... C. N. Merrill & Son, Bristol	S	96	61.5	80
6215	Millet, Japanese (*Fancy*) ..... J. J. Moreau & Son, Manchester	S	96	S	85
6220	Millet, Japanese (*Fancy*) ..... J. J. Moreau & Son, Manchester	A	90	78	90
6510	Millet, Japanese ..... J. H. Morrill, Laconia	S	96.13	A	80
6542	Millet, Japanese ..... Muzzey & Hopkins, Lakeport	S	94.93	81	93
6384	Millet, Japanese (*Fancy*) ..... Nashua Grain Co., Nashua	A	96	S	90
6288	Millet, Japanese (*Fancy*) ..... F. W. Neal & Co., Dover	S	96	S	88

A=Above. S=Satisfactory.

SEED EXAMINATION, 1927 — *Continued.*

Sample No.	Kind of Seed, Brand, Name and Address of Dealer	Purity		Germination	
		F'nd	Guaranteed	F'nd	Guaranteed
6409	Millet, Japanese C. J. O'Neil, Woodsville	A	94	S	85
6405	Millet, Japanese W. F. Peel, Nashua	93.20	96.40	S	92
6513	Millet, Japanese (*Fancy*) C. N. Roberts, Meredith	S	96	S	88
6300	Millet, Japanese (*Choice*) S. A. Sehurman & Son, Portsmouth	S	96	S	85
6332	Millet, Japanese J. H. Seavey, Dover	S	95.92	S	92
6488	Millet, Japanese C. P. Stevens Co., Franklin	87.20	95	71	85
6246	Millet, Japanese Thompson & Hoague Co., Concord	92.93	95.3	S	94
6568	Millet, Japanese A. J. Turcotte, Newmarket	S	96	S	90
6157	Millet, Japanese (4455) John B. Varick Co., Manchester	S	95,92	S	92
6292	Millet, Japanese (*Fancy*) W. L. Whitaker, Somersworth	90.92	96	66	85
6347	Millet, Japanese W. A. Young, Exeter	96.23	98	87	97
6363	Oats (*Fancy*) Bell Hardware Co., Derry	S	98	S	90
6457	Oats (*White Mountain*) W. B. Brown, Ashland	S	98	S	92
6458	Oats (*Hygrad*) G. B. Currier Co., Colebrook	S	99	S	97
6487	Oats (*Abundance*) J. H. Griffin, Newmarket	S	98	85.5	98
6352	Oats (*Abundance*) Hilliard & Kimball, Exeter	S	98	85	95
6443	Oats (*Swedish Type*) H. G. Holton, Lancaster	S	98.50	S	97
6321	Oats (*Heavy Northwestern Grown*) Jenness Hardware Co., Dover	S	99	S	90
6566	Oats (*Fodder*) W. E. King, Manchester	S	98	94	—
6465	Oats (*Swedish Type*) Leavitt, Gould, & Hurlbert, Colebrook	S	99.36	S	95
6354	Oats (*Pennant*) Meredith Grain Co., Meredith	S	99.50	S	99
6518	Oats (*Pennant*) C. H. Merrill & Son, Bristol	S	99.50	S	99
6342	Oats (*Swedish Type*) Merrimack Farmers' Exchange, Concord	S	98.11	S	96
6357	Oats (*Swedish*) Merrimack Farmers' Exchange, Derry	S	95	S	95
6325	Oats (*Welcome*) F. W. Neal & Co., Dover	S	99	S	98
6590	Oats (*Fancy*) Nelson-Warner Co., Charlestown	S	99	82	97
6472	Oats (*Swedish Type*) D. A. Noyes & Son, Colebrook	S	98.64	S	96

A=Above. S=Satisfactory.

SEED EXAMINATION, 1927 — *Continued.*

Sample No.	Kind of Seed, Brand, Name and Address of Dealer	Purity		Germination	
		F'nd	Guaranteed	F'nd	Guaranteed
6498	Oats O. A. Plummer, Tilton	S	98.81	S	87
6483	Oats (*Hygrade Fancy*) J. E. Reed & Son, Ashland	S	99	S	97
6502	Oats (*White Mountain*) H. C. Sanborn, Laconia	S	98	S	90
6497	Oats (*White Mountain*) C. P. Stevens Co., Franklin	S	98	S	90
6244	Oats (*Swedish Type*) Thompson & Hoague Co., Concord	S	99.18	68	90
6150	Oats (*Swedish*, 7394) John B. Varick Co., Manchester	97.26	98.50	S	97
6167	Orchard Grass John B. Varick Co., Manchester	S	87	S	80
6293	Rape (*Dwarf Essex*) F. W. Neal & Co., Dover	S	98	S	96
6233	Rape (*Dwarf Essex*) Thompson & Hoague Co., Concord	S	99.58	S	88
6604	Red Clover (C285, *Fancy*) Abbott Grocery Co., Keene	S	97.41	67.5	80
6195	Red Clover (*Northern Grown French*) Ayers & Jenkins Co., Rochester	S	99	S	90
6359	Red Clover (*Pan American French*) Bell Hardware Co., Derry	81.12	98.5	70.5	90
6577	Red Clover P. W. Bragg, Farmington	S	99	S	85
6559	Red Clover O. A. Brown, Ashland	S	98	S	92
6560	Red Clover (*Domestic White Mtn.*) W. B. Brown, Ashland	S	99	S	92
6553	Red Clover (*Pan American French*) A. F. Burtt Co., Plymouth	S	98.50	S	90
6599	Red Clover (*Liberty*, 3615) F. W. Clark, Wilton	S	96	S	92
6423	Red Clover A. F. Clement & Son, Lisbon	S	99	S	91
6302	Red Clover (*Northern France*) R. L. Costello, Portsmouth	S	98	S	91
6461	Red Clover (*Medium*) G. B. Currier Co., Colebrook	S	98	S	92
6364	Red Clover (*Acc Imported*) J. Cushing Co., Exeter	S	98	86.5	—
6316	Red Clover (*French*) S. A. Dow & Son, North Hampton	S	98.5	S	90
6587	Red Clover Geo. H. Eames & Son, Keene	S	99.50	S	94
6415	Red Clover Edson & Kinne, Littleton	S	95	S	90
6419	Red Clover (*Imported*) Edson & Kinne, Littleton	S	98.14	80	89
6197	Red Clover (*Pan American French*) Eugene C. Foss Co., Rochester	S	98.5	80	90
6579	Red Clover (*Pan American French*) L. W. Gile, Newport	S	98	S	90
6482	Red Clover (*Pan American*) J. H. Griffin, Newmarket	S	98.5	S	90
6396	Red Clover (*Domestic*) Holbrook Grocery Co., Woodsville	S	97	S	91

A=Above. S=Satisfactory.

SEED EXAMINATION, 1927 — *Continued.*

Sample No.	Kind of Seed, Brand, Name and Address of Dealer	Purity		Germination	
		F'nd	Guaranteed	F'nd	Guaranteed
6397	Red Clover ..... Holbrook Grocery Co., Woodsville	S	97	S	91
6441	Red Clover (*Ace Medium*) ..... H. G. Holton, Lancaster	S	98	81	92
6591	Red Clover (9914) ..... Hopkins Bros. & Belcher Co., Greenfield	S	96.92	62.5	93
6463	Red Clover (*Medium*) ..... J. R. Jackson & Son, Colebrook	S	98.56	S	97
6310	Red Clover (*Medium*) ..... Jenness Hardware Co., Dover	S	99.14	S	88
6504	Red Clover (*Pan American French*) Keegan & French, Franklin	S	98.50	S	90
6469	Red Clover (*Domestic Medium*) ..... Leavitt, Gould & Hurlbert, Colebrook	S	96.68	S	92
6475	Red Clover (*Medium*) ..... McQuesten & Lewis, Manchester	S	98.3	S	88
6525	Red Clover (*Pan American French*) Meredith Grain Co., Meredith	S	98.50	S1	90
6539	Red Clover (*Pan American French*) C. N. Merrill & Son, Bristol	S	98.50	S	90
6341	Red Clover (*Ace Domestic Medium*) Merrimack Farmers' Exchange, Concord	S	97.5	A	90
6583	Red Clover (*XXX Native*) ..... Metcalf & Cahlane, Walpole	S	97	A	90
6227	Red Clover ..... J. J. Moreau & Son, Manchester	S	98.5	S	90
6515	Red Clover (*Ace Idaho*) ..... J. H. Morrill, Laconia	S	98.44	A	70
6528	Red Clover ..... Muzzey & Hopkins, Lakeport	S	99	S	92
6551	Red Clover (*White Mtn.*) ..... Muzzey & Hopkins, Lakeport	S	99	S	94
6319	Red Clover (*Eureka French*) ..... F. W. Neal & Co., Dover	98.08	99.25	S	90
6297	Red Clover (*Pan American Domestic*) F. W. Neal & Co., Dover	S	98.5	S	90
6367	Red Clover (*Pan American French*) F. W. Neal & Co., Dover	96.71	98.5	69	90
6473	Red Clover (*French Medium*) ..... D. A. Noyes & Son, Colebrook	S	99.50	S	94
6408	Red Clover (*Domestic Ace*) ..... C. J. O'Neil, Woodsville	95.18	99.60	S	94
6402	Red Clover (*Choice*) ..... W. F. Peel, Nashua	S	99	S	92
6403	Red Clover (*Choice*) ..... W. F. Peel, Nashua	S	98	S	90
6588	Red Clover (*Imported Medium*, 24-416) C. A. Perkins, Charlestown	S	99	S	90
6508	Red Clover (*Pine Tree*) ..... J. P. Pitman & Co., Laconia	S	98	64	94
6503	Red Clover (*Pan American*) ..... O. A. Plummer, Tilton	S	98	S	90
6601	Red Clover (*Medium*) ..... Putney Store Co., Conway	....	....	S	92
6507	Red Clover (*Pan American French*) Rand & Dearborn, Laconia	S	98.50	S	90

A=Above. S=Satisfactory.

SEED EXAMINATION, 1927 — *Continued.*

Sample No.	Kind of Seed, Brand, Name and Address of Dealer	Purity		Germination	
		F'nd	Guaranteed	F'nd	Guaranteed
6548	Red Clover (*Pan American French*) J. E. Read & Son, Ashland	S	98.50	S	90
6513	Red Clover (*Eureka French*) H. C. Sanborn, Laconia	S	99.25	S	90
6312	Red Clover (*Pine Tree Imported*) J. H. Seavey, Dover	S	99.16	S	94
6511	Red Clover (*Native*) Shepard Grocery Co., Franklin	S	98.28	S	92
6440	Red Clover (*Medium*) Frank Smith Co., Lancaster	S	99.02	S	94
6290	Red Clover (*Medium French*) Somersworth Grain Co., Somersworth	97.62	98.36	S	94
6495	Red Clover (*Pan American French*) C. P. Stevens Co., Franklin	S	98.50	S	90
6207	Red Clover (*Choice*) Strafford Co. Grain Mill, Rochester	S	98.5	S	92
6239	Red Clover (*Ace French Medium*) Thompson & Hoague Co., Concord	S	99.34	S	92
6248	Red Clover (*Ace*) Thompson & Hoague Co., Concord	S	98.22	S	90
6484	Red Clover (*Choice*) A. J. Turcotte, Newmarket	S	98	64.5	93
6177	Red Clover (*Ace Domestic Medium*, 24157) John B. Varick Co., Manchester	S	98	S	92
6179	Red Clover (*Pine Tree Mammoth Native*, 235) John B. Varick Co., Manchester	S	99.25	S	92
6522	Red Clover Weeks & Smith, Meredith	S	98	S	92
6372	Red Clover W. A. Young, Exeter	S	98.78	83	94
6452	Red Top (*Certi-Seed*) W. J. Abbott, Lancaster	S	92	S	94
6190	Red Top (*Pine Tree, Fancy*) Ayers & Jenkins Co., Rochester	S	93.7	S	92
6369	Red Top (*Pan American*) Bell Hardware Co., Derry	S	92	S	90
6254	Red Top A. H. Britton & Co., Concord	S	92	S	90
6447	Red Top (*Ace*) F. P. Brown, Whitefield	S	90.20	S	90
6555	Red Top (*Ace*) C. A. Brown, Ashland	S	90	S	90
6545	Red Top (*Ace*) W. B. Brown, Ashland	A	90	S	90
6546	Red Top (*White Mtn., Extra Fancy*) W. B. Brown, Ashland	90.85	95	S	90
6256	Red Top (*Pan American*) Capital Hardware Co., Concord	S	92	S	90
6425	Red Top (*Ace*) A. F. Clement & Son, Lisbon	S	90	S	90
6420	Red Top (*Fancy*) Edson & Kinne, Littleton	A	85	S	85
6365	Red Top Fessenden Co., Inc., Londonderry	S	90	S	88

A=Above. S=Satisfactory.

SEED EXAMINATION, 1927 — *Continued.*

Sample No.	Kind of Seed, Brand, Name and Address of Dealer	Purity		Germination	
		F'nd	Guaranteed	F'nd	Guaranteed
6199	Red Top (*Pan American*) ..... Eugene C. Foss Co., Rochester	S	92	S	90
6538	Red Top (*Fancy*) ..... S. A. Garland & Son, Lakeport	88.74	98	73	95
6552	Red Top (*Fancy*) ..... C. J. Goss, Lakeport	S	92.24	S	90
6344	Red Top (*No. 1 Fancy*) ..... Hilliard & Kimball, Exeter	S	90	S	92
6295	Red Top (*Acc*) ..... Jenness Hardware Co., Dover	S	90.5	S	90
6208	Red Top (*Acc Fancy*) ..... J. Jones & Son, Alton	S	90	S	90
6575	Red Top (*Pan American*) ..... Keegan & French, Franklin	S	92	S	90
6439	Red Top (*Acc*) ..... Lisbon General Store, Lisbon	S	90	S	88
6219	Red Top (*Pan American*) ..... J. J. Moreau & Son, Manchester	S	92	S	90
6249	Red Top (*Acc Fancy*) ..... Merrimack Farmers' Exchange, Concord	S	88.6	S	90
6378	Red Top (*Pan American*) ..... Merrill Bros., Hampton Falls	S	92	S	90
6541	Red Top (*Extra Fancy White Mtn.*) Muzzey & Hopkins, Lakeport	S	95	S	90
6281	Red Top (*Pan American*) ..... F. W. Neal & Co., Dover	S	92	S	90
6348	Red Top (*Pan American*) ..... W. F. Neal & Co., Derry	86.01	92	S	90
6401	Red Top (No. 1) ..... W. F. Peel, Nashua	S	90	S	92
6388	Red Top ..... W. R. Peterson Co., Nashua	S	90	S	90
6444	Red Top (*Acc*) ..... Frank Smith Co., Lancaster	S	93.60	S	92
6234	Red Top (*Acc Fancy*) ..... Thompson & Hoague Co., Concord	S	90.4	S	90
6159	Red Top (*Pine Tree Fancy*, 30537) John B. Varick Co., Manchester	S	93.10	S	92
6160	Red Top (*Pine Tree Fancy*, 30268) John B. Varick Co., Manchester	S	92	S	90
6173	Red Top (*Acc Fancy*, 30536) ..... John B. Varick Co., Manchester	S	90	S	90
6537	Red Top ..... Weeks & Smith, Meredith	S	90	S	90
6287	Red Top (*Pan American*) ..... W. L. Whitaker, Somersworth	S	92	S	90
6379	Red Top ..... W. A. Young, Exeter	S	90	S	90
6242	Rutabaga (*Shamrock Swede*) ..... Thompson & Hoague Co., Concord	....	....	S	90
6255	Rutabaga (*Improved Am. Purple Top*) Thompson & Hoague Co., Concord	—	—	S	90
6161	Rutabaga (*Yellow Am. Purple Top*) John B. Varick Co., Manchester	S	98	79	90
6165	Rutabaga (*St. Andrews*) ..... John B. Varick Co., Manchester	S	98	75.5	90
6375	Rye (*Spring*) ..... Bell Hardware Co., Derry	S	98	S	90

A=Above. S=Satisfactory.

SEED EXAMINATION, 1927 — *Continued.*

Sample No.	Kind of Seed, Brand, Name and Address of Dealer	Purity		Germination	
		F'nd	Guaranteed	F'nd	Guaranteed
6313	Rye (*Rosen*) ..... S. A. Dow & Son, North Hampton	S	98	61	90
6217	Rye (*Spring*) ..... Eugene C. Foss Co., Rochester	S	98	S	90
6231	Rye (*Rosen Winter*) ..... Eugene C. Foss Co., Rochester	S	98	68.5	96
6366	Rye (*Winter*) ..... Hilliard & Kimball, Exeter	S	97	S	86
6509	Rye (*Winter*) ..... Shepard Grocery Co., Franklin	S	98	23.5	75
6149	Rye (*Spring*, 74304) ..... John B. Varick Co., Manchester	S	99	S	90
6168	Rye (*Rosen Winter*) ..... John B. Varick Co., Manchester	S	97	S	90
6170	Rye (*Spring*, 7497) ..... John B. Varick Co., Manchester	S	98	S	90
6414	Sweet Clover ..... W. J. Abbott, Lancaster	S	98.36	S	98
6395	Sweet Clover ..... Holbrook Grocery Co., Woodsville	S	98.96	S	75
6586	Sweet Clover (*White Blossom XXX*) ..... Holbrook Grocery Co., Keene	S	98.96	S	90
6232	Sweet Clover (*White Blossom*) ..... Merrimack Farmers' Exchange, Concord	S	99.4	67	92
6203	Sweet Clover (*White*) ..... Strafford Co. Grain Mill, Rochester	S	99.45	S	98
6174	Sweet Clover (*Pine Tree, White Blossom*, 25198) ..... John B. Varick Co., Manchester	S	99	S	89
6417	Timothy (*Ceti-Seed*) ..... W. J. Abbott, Lancaster	S	99.75	S	93
6211	Timothy (*Pine Tree*) ..... Ayers & Jenkins Co., Rochester	S	99.65	S	95
6224	Timothy (*King*) ..... Ayers & Jenkins Co., Rochester	S	99.6	S	91
6229	Timothy (*Pine Tree*) ..... Ayers & Jenkins Co., Rochester	S	99.6	S	94
6373	Timothy (*Pan American*) ..... Bell Hardware Co., Derry	S	99.6	S	92
6253	Timothy (*Gem*) ..... A. H. Britton & Co., Concord	A	98	85	93
6449	Timothy (*Pan American*) ..... F. P. Brown, Whitefield	S	99.60	S	92
6490	Timothy (*Pine Tree*) ..... O. A. Brown, Ashland	S	99	S	94
6470	Timothy (*Monadnock*) ..... W. B. Brown, Ashland	S	99.50	S	94
6557	Timothy (*White Mtn., Extra Fancy*) ..... W. B. Brown, Ashland	S	99.65	S	95
6554	Timothy (*Pan American*) ..... A. F. Burtt Co., Plymouth	S	99.60	S	92
6257	Timothy (*Pan American*) ..... Capital Hardware Co., Concord	98.82	99.6	S	92
6424	Timothy (*Bison*) ..... A. F Clement & Son, Lisbon	S	98	S	90
6580	Timothy (*Pan American*) ..... Lloyd R. Cummings, Newport	S	99.60	S	90

A=Above. S=Satisfactory.

SEED EXAMINATION, 1927 — *Continued.*

Sample No.	Kind of Seed, Brand, Name and Address of Dealer	Purity		Germination	
		Fnd	Guaranteed	Fnd	Guaranteed
6454	Timothy (*Pine Tree*) ..... G. B. Currier Co., Colebrook	S	99.60	S	94
6595	Timothy (*Monadnock*) ..... J. Cushing Co., Peterboro	S	99.50	S	93
6322	Timothy (*Pan American*) ..... S. A. Dow & Son, North Hampton	S	99.6	S	90
6474	Timothy (*Pine Tree*) ..... W. E. Dunbar Sons, Manchester	S	99.5	S	94
6416	Timothy (*White Mtn.*) ..... Edson & Kinne, Littleton	S	99.85	S	95
6422	Timothy (*Liberty*) ..... Edson & Kinne, Littleton	S	99.60	S	92.5
6428	Timothy ..... Edson & Kinne, Littleton	S	98	S	91
6370	Timothy (*Pine Tree*) ..... Fessenden Co., Inc., Londonderry	S	99.6	S	94
6212	Timothy (*Pan American*) ..... Eugene C. Foss Co., Rochester	S	99.6	S	92
6526	Timothy (*Gem*) ..... S. A. Garland & Son, Lakeport	S	98.70	S	94
6600	Timothy (*Liberty, 1411*) ..... Goodnow Bros. Co., East Jaffrey	S	99.60	S	90.25
6530	Timothy (*Liberty*) ..... C. J. Goss, Lakeport	S	99.60	S	93
6479	Timothy (*Pine Tree*) ..... J. H. Griffin, Newmarket	S	99.65	S	94
6385	Timothy (*Pine Tree*) ..... Hill Hardware & Paint Co., Nashua	S	99.6	S	94
6360	Timothy (*Pine Tree*) ..... Hilliard & Kimball, Exeter	S	99.6	S	94
6391	Timothy ..... Holbrook Grocery Co., Woodsville	S	99.6	S	94
6392	Timothy (*Special*) ..... Holbrook Grocery Co., Woodsville	S	97	S	90
6394	Timothy ..... Holbrook Grocery Co., Woodsville	S	98	S	91
6597	Timothy (*XXX*) ..... Holbrook Grocery Co., Keene	S	99	S	93
6442	Timothy (*Pine Tree*) ..... H. G. Holton, Lancaster	S	99.60	S	94
6596	Timothy (*Pine Tree, 64342*) ..... Hopkins Bros. & Belcher Co., Greenfield	S	99.60	S	94
6311	Timothy (*Pine Tree*) ..... Jenness Hardware Co., Dover	S	99.60	S	94
6192	Timothy (*Bison*) ..... J. Jones & Son, Alton	A	98	S	90
6221	Timothy ..... J. Jones & Son, Alton	S	98.3	S	90
6222	Timothy (*Liberty*) ..... J. Jones & Son, Alton	S	99.7	S	94
6489	Timothy (*Pan American*) ..... Keegan & French, Franklin	S	99.60	S	92
6451	Timothy (*Bison*) ..... C. C. King Co., Whitefield	S	98.10	S	91
6468	Timothy (*Pine Tree*) ..... Leavitt, Gould & Hurlbert, Colebrook	S	99.60	S	93

A=Above. S=Satisfactory.

SEED EXAMINATION, 1927 — *Continued.*

Sample No.	Kind of Seed, Brand, Name and Address of Dealer	Purity		Germination	
		F'nd	Guaranteed	F'nd	Guaranteed
6193	Timothy (*Pine Tree*) ..... Manchester Hardware Co., Manchester	S	99.55	S	94
6544	Timothy (*Pan American*) ..... Meredith Grain Co., Meredith	S	99.60	S	90
6377	Timothy (*Pan American*) ..... Merrill Bros., Hampton Falls	S	99.60	S	92
6462	Timothy (*Pine Tree*) ..... C. N. Merrill & Son, Bristol	S	99.60	S	93
6335	Timothy (*Pine Tree*) ..... Merrimack Farmers' Exchange, Concord	S	99.65	S	94
6218	Timothy (*Pan American*) ..... J. J. Morean & Son, Manchester.	S	99.60	S	90
6499	Timothy (*Pine Tree*) ..... J. H. Morrill, Laconia	S	99.60	S	93
6527	Timothy (*Liberty*) ..... Muzzey & Hopkins, Lakeport	99	99.60	S	95
6529	Timothy ..... Muzzey & Hopkins, Lakeport	S	99.60	S	95.80
6382	Timothy (*Pan American*) ..... Nashua Grain Co., Nashua	S	99.60	S	90
6374	Timothy (*Imperator*) ..... W. F. Neal & Co., Derry	S	99	S	90
6400	Timothy (*Bay State*) ..... W. F. Peel, Nashua	S	99.60	S	94
6481	Timothy (*Pine Tree*) ..... Philbrook Grain Co., Portsmouth	S	99.60	S	94
6516	Timothy ..... J. P. Pitman & Co., Laconia	S	99	S	94
6594	Timothy ..... C. H. Plumer, East Jaffrey	S	99	S	98
6501	Timothy (*Pan American* ..... O. A. Plummer, Tilton	S	99.60	S	92
6602	Timothy (*Pine Tree*, 66313) ..... Putney Store Co., Conway	S	99	S	94
6549	Timothy (*Liberty*) ..... J. E. Read & Son, Ashland	S	99.60	S	93
6514	Timothy (*Pine Tree*) ..... H. C. Sanborn, Laconia	S	99.60	S	94
6304	Timothy (*Herald*) ..... S. A. Schurman & Son, Portsmouth	97.04	98	S	90
6305	Timothy (*Pan American*) ..... S. A. Schurman & Son, Portsmouth	S	99.60	S	92
6318	Timothy (*Pine Tree*) ..... J. H. Seavey, Dover	S	99.60	S	94
6326	Timothy (*Pine Tree*) ..... J. H. Seavey, Dover	S	99.60	S	94
6512	Timothy (*Gem*) ..... Shepard Grocery Co., Franklin	S	98.70	S	94
6296	Timothy (*Pine Tree*) ..... Somersworth Grain Co., Somersworth	S	98.2	S	92
6430	Timothy ..... F. B. Spaulding Co., Lancaster	S	99.65	S	94
6493	Timothy (*Pine Tree*) ..... C. P. Stevens Co., Franklin	S	99.60	S	94

A=Above. S=Satisfactory.

SEED EXAMINATION, 1927 — *Continued.*

Sample No.	Kind of Seed, Brand, Name and Address of Dealer	Purity		Germination	
		F'nd	Guaranteed	F'nd	Guaranteed
6206	Timothy (*Bay State*) ..... Strafford Co. Grain Mill, Rochester	S	99.60	S	95
6235	Timothy (*Pine Tree*) ..... Thompson & Hoague Co., Concord	S	99.65	S	95
6237	Timothy (*Pine Tree*) ..... Thompson & Hoague Co., Concord	S	99.60	S	93
6238	Timothy (*Pine Tree*) ..... Thompson & Hoague Co., Concord	S	99.60	S	95
6485	Timothy (*Best Prime*) ..... A. J. Turcotte, Newmarket	S	98	S	90
6152	Timothy (*Jersey*, 65755) ..... John B. Varick Co., Manchester	A	98	S	92
6162	Timothy (*Durham*) ..... John B. Varick Co., Manchester	S	99.50	S	94
6164	Timothy (*Pine Tree*, 65445) ..... John B. Varick Co., Manchester	S	99.60	S	94
6172	Timothy (*Pine Tree*, 65893) ..... John B. Varick Co., Manchester	S	99.60	S	94
6505	Timothy (*Pine Tree*) ..... F. H. Veroneau, Concord	S	99.60	S	94
6521	Timothy (*Pine Tree*) ..... Weeks & Smith, Meredith	S	99.60	S	94
6286	Timothy (*Pan American*) ..... W. L. Whitaker, Somersworth	99.05	99.60	S	92
6603	Timothy (*Prime*) ..... O. L. & C. A. White, Center Ossipee	S	98	S	90
6343	Timothy (*Pine Tree*) ..... W. A. Young, Exeter	S	99.60	S	94
6362	Timothy (*Pine Tree*) ..... W. A. Young, Exeter	S	99.87	S	96.75
6163	Turnip (*White Sweet German*) ..... John B. Varick Co., Manchester	S	98	0	90
6398	Vetch (*Winter*) ..... Holbrook Grocery Co., Woodsville	S	96.47	64.5	84
6464	Vetch (*Spring*) ..... J. R. Jackson & Son, Colebrook	S	99.44	79	92
6476	Vetch (*Winter*) ..... McQuesten & Lewis, Manchester	S	98.63	S	91
6336	Vetch (*Winter*) ..... Merrimack Farmers' Exchange Concord	S	99.01	S	97
6214	Vetch (*Spring*) ..... J. J. Moreau & Son, Manchester	S	92	A	90
6438	Vetch (*Winter*) ..... Pike & Gale, Littleton	S	98	S	90
6148	Vetch (*Winter*) ..... John B. Varick Co., Manchester	S	97	S	90
6169	Wheat (*Spring, Marquis Type*, 7563) ..... John B. Varick Co., Manchester	S	99.50	S	96
6252	White Clover ..... A. H. Britton & Co., Concord	S	93.45	S	92
6334	White Clover (*Choice*) ..... Capital Hardware Co., Concord	S	96	S	90
6534	White Clover (*Choice*) ..... Keegan & French, Franklin	S	96	S	90
6187	White Clover (*Choice*) ..... J. J. Moreau & Son, Manchester	S	96	S	90

A=Above. S=Satisfactory.

SEED EXAMINATION, 1927 — *Continued.*

Sample No.	Kind of Seed, Brand, Name and Address of Dealer	Purity		Germination	
		F'nd	Guaranteed	F'nd	Guaranteed
6389	White Clover ..... W. R. Peterson Co., Nashua	S	93.45	S	92
6433	White Clover ..... Frank Smith Co., Lancaster	S	94.35	S	96
6240	White Clover ..... Thompson & Hoague Co., Concord	S	95.15	S	97
6175	White Clover (*Fancy*, 26108) ..... John B. Varick Co., Manchester	S	97.70	S	94
6176	White Clover (*Fancy*, 2965)..... John B. Varick Co., Manchester	S	97.06	S	92
6353	White Clover (*Choice*) ..... W. A. Young, Exeter	S	93.45	A	92

A=Above. S=Satisfactory.

SUMMARY TABLE

Showing General Results of Seed Inspection Work
for the year ending June 30, 1927

Kind of Seed	Number of Samples	Purity Compared to Guarantee			No Guarantee	Germination Compared to Guarantee			No Guarantee
		Above	Satisfactory	Below		Above	Satisfactory	Below	
Alfalfa	10	2	8	0	0	2	8	0	0
Alsike Clover	32	3	27	2	0	3	25	4	0
Barley	19	0	19	0	0	0	17	2	0
Buckwheat	5	0	5	0	0	1	4	0	0
Canada Field Peas	8	0	8	0	0	0	6	2	0
Corn	12	0	12	0	0	0	10	2	0
Mangles	4	0	4	0	0	0	4	0	0
Millet	60	6	39	15	0	1	39	20	0
Oats	22	0	21	1	0	0	17	5	0
Red Clover	63	0	57	5	1	3	48	12	0
Red Top	36	2	31	3	0	0	35	1	0
Rutabaga	4	0	2	0	2	0	2	2	0
Rye	9	0	9	0	0	0	6	3	0
Sweet Clover	6	0	6	0	0	0	5	1	0
Timothy	84	4	76	4	0	0	83	1	0
Vetch	7	0	7	0	0	1	4	2	0
White Clover	10	0	10	0	0	1	9	0	0
Miscellaneous	7	1	6	0	0	0	5	2	0
	398	18	347	30	3	12	327	59	0